

SunScout

— CLASS A SOLAR RESOURCE ASSESSMENT —



Campbell
S C I E N T I F I C ®



Core Station

Meteorological Sensors

- Easy-to-install MetSens500 all-in-one sensor providing air temperature, relative humidity, wind speed and direction, and barometric pressure
- TE525 tipping-bucket rain gauge for precipitation

Global Horizontal Irradiance (GHI)

- Class A pyranometer with ISO 17025-accredited calibration
- Premium pyranometer mount that allows for easy leveling and elevation adjustment

Soiling

- DustVue photovoltaic (PV) soiling sensor that provides high accuracy daily soiling loss
- Uses the most proven and reliable soiling method from the IEC 61724-1 standard with a direct measure of power loss using short-circuit current between two panels

Power Supply

- Designed for continuous off-grid operation in even the coldest and harshest climates
- Intelligent sensor and peripheral control to maximize up-time and deliver a complete data record

Data Acquisition

- Campbell Scientific CR350 datalogger with embedded cellular gateway
- Raised and angled wiring terminals for convenient wiring in the field
- Programmed according to industry best practices and IEC 61724-1
- Easy-access maintenance button to record when maintenance tasks are performed

Tripod

- Wide footprint for extra stability in high-wind environments
- Easy-to-install center-point anchor system
- Full station designed to be installed within six hours



Options

Albedo

- Your choice of Class A or Class C pyranometers
- Matte black powder-coated tripod and mounting hardware to minimize reflections and reduce uncertainty

Diffuse Irradiance

- Diffuse Horizontal Irradiance (DHI) measured by SPN1 for single-axis tracker or bifacial projects
- Calculated Direct Normal Irradiance (DNI) using onboard solar position algorithm to provide three components of irradiance

Additional Irradiance

- Class A pyranometer for redundant GHI or Plane of Array

Installation and Commissioning*

Confidently offload your project management by specifying when and where you want your SunScout installed by experienced technicians. Stations are in stock and ready to ship.

- Detailed commissioning report provided for each SunScout installation to validate operational performance
- Optional station maintenance training for your site technicians to ensure premium data quality

*Depending on location

